SEQUENCE LISTING

- <110> Hoechst Marion Roussel
- <120> Novel monomer protein with bone morphogenetic activity and medicinal agent containing the same for preventing and treating diseases of cartilage and bone.
- <130> JH98K008 PCT SEQUENCES IN ENGLISH

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<150> 10-141379

<151> 1998-05-22

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<170> PatentIn Ver. 2.1

<210> 1

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<212> DNA

<213> HUMAN

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<221> CDS

<222> (1)..(357)

<223> Relevant amino acid residues in SEQ ID NO 1 from 1 to 82 and from 84 to 119 in WO 95/04819.

Note: aminoacid residue 83 is alanine instead of cysteine.

<300>

<301> HOTTEN, Gertrud

NEIDHARDT, Helge

PAULISTA, Michael

WO 99/61611 PCT/IB99/00866

2

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cca	cta	gca	act	cgt	cag	ggc	aag	cga	ccc	agc	aag	aac	ctt	aag	gct	48
Pro	Leu	Ala	Thr	Arg	Gln	Gly	Lys	Arg	Pro	Ser	Lys	Asn	Leu	Lys	Ala	
1				5					10					15		
cgc	tgc	agt	cgg	aag	gca	ctg	cat	gtc	aac	ttc	aag	gac	atg	ggc	tgg	96
Arg	Cys	Ser	Arg	Lys	Ala	Leu	His	Val	Asn	Phe	Lys	Asp	Met	Gly	Trp	
			20					25					30			
gac	gac	tgg	atc	atc	gca	ccc	ctt	gag	tac	gag	gct	ttc	cac	tgc	gag	144
Asp	Asp	Trp	Ile	Ile	Ala	Pro	Leu	Glu	Tyr	Glu	Ala	Phe	His	Cys	Glu	
		35					40					45				
9 99	ctg	tgc	gag	ttc	сса	ttg	cgc	tcc	cac	ctg	gag	ccc	acg	aat	cat	192
Gly	Leu	Cys	Glu	Phe	Pro	Leu	Arg	Ser	His	Leu	Glu	Pro	Thr	Asn	His	
	50					55					60					
gca	gtc	atc	cag	acc	ctg	atg	aac	tcc	atg	gac	ccc	gag	tcc	aca	cca	240
Ala	Val	Ile	Gln	Thr	Leu	Met	Asn	Ser	Met	Asp	Pro	Glu	Ser	Thr	Pro	
65					70					75					80	
ccc	acc	gcc	tgt	gtg	CCC	acg	cga	ctg	agt	CCC	atc	agc	atc	ctc	ttc	288
Pro	Thr	Ala	Cys	Val	Pro	Thr	Arg	Leu	Ser	Pro	Ile	Ser	Ile	Leu	Phe	
				85					90					95		
att	gac	tct	gcc	aac	aac	gtg	gtg	tat	aag	cag	tat	gag	gac	atg	gtc	336
Ile	Asp	Ser	Ala	Asn	Asn	Val	Val	Tyr	Lys	Gln	Tyr	Glu	Asp	Met	Val	
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35 40 4

Gly Leu Cys Glu Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His

50 55 60

Ala Val Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro

65 70 75 80

Pro Thr Ala Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe

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<222> Complement((1)..(37))

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